

## Product datasheet for **SM289LE**

### CD71 / TFRC Mouse Monoclonal Antibody [Clone ID: OX-26]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-26
Applications:	FC, IHC, WB
Recommended Dilution:	Western Blot: This antibody detects a band of approximately 95kDa in ConA cell lysates under reducing conditions in Western blotting. (Mwt 195kDa without reduction). Immunohistochemistry on frozen sections. Flow Cytometry: 1/10 - 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	PHA activated rat lymphocytes. Spleen cells from immunised Balb/c mice were fused with cells of the NS1 mouse myeloma cell line.
Specificity:	This antibody recognises CD71, also known as transferrin receptor, a homodimeric type II transmembrane protein, expressed by all proliferating cells and cells with a requirement for iron, including reticulocytes and capillary endothelium in brain. This antibody also binds to a number of non-dividing normal tissues. The balance between a sufficient amount of iron uptake and prevention of accumulation of excess iron within a cell, is vitally important to maintain cellular functions such as oxygen and electron transport and mitochondrial energy metabolism, whilst preventing permanent cell and tissue damage. Clone MRC OX-26 is reported as suitable for use in Electron Microscopy.
Formulation:	PBS State: Low Endotoxin State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated



[View online »](#)

<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Database Link:</b>	<a href="#">Q99376</a>
<b>Background:</b>	Transferrin receptor (CD71), transferrin and ferritin have been identified as specialised proteins which control the uptake, transport and storage of free iron in tissues, thereby maintaining iron homeostasis. An imbalance in iron homeostasis within the brain has been linked with the neurodegenerative diseases, Alzheimers, Parkinsons, Huntingtons and Multiple Sclerosis.
<b>Synonyms:</b>	TfR1, p90, Transferrin receptor protein 1
<b>Note:</b>	Endotoxin Level: less than 0.01EU/μg